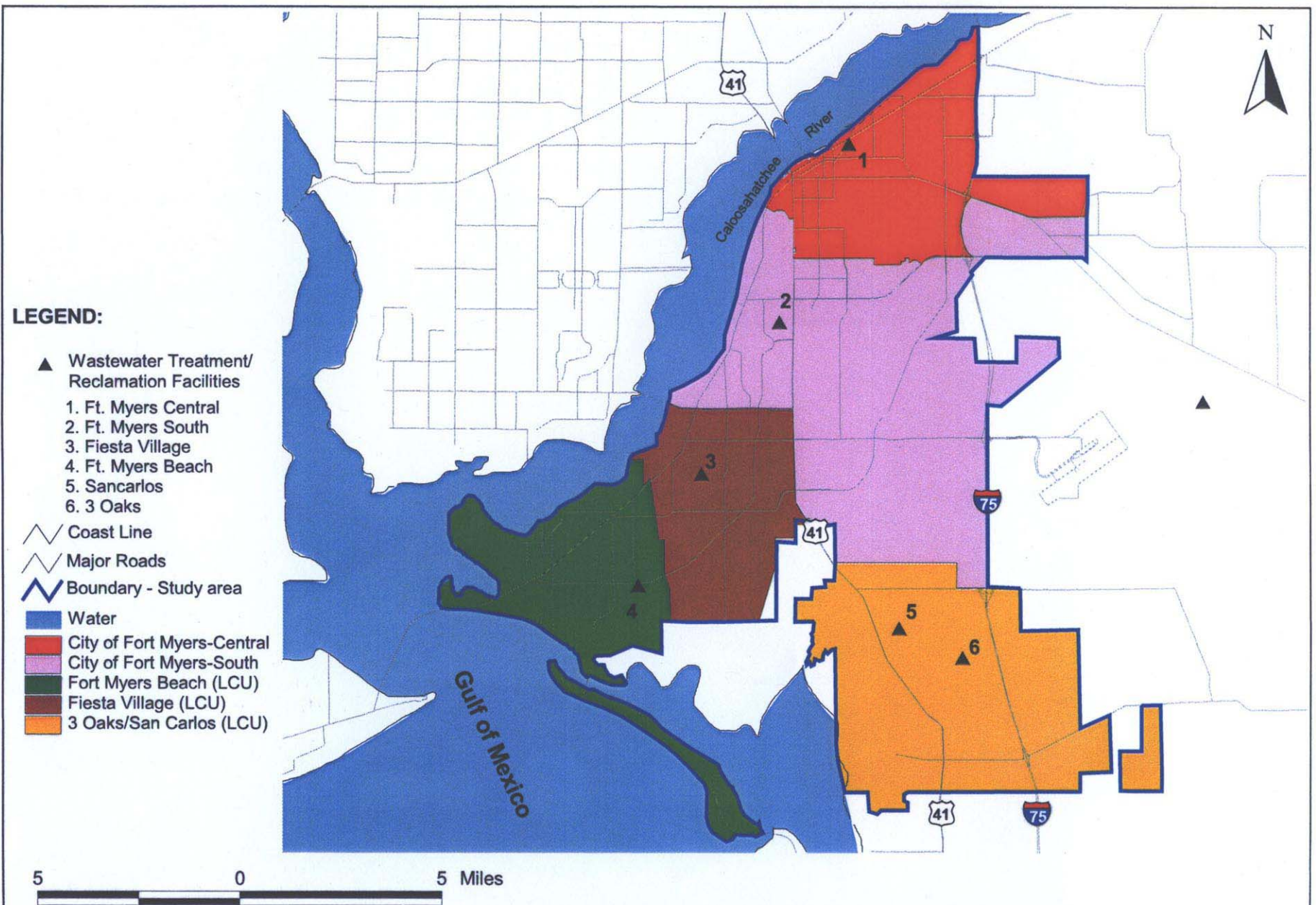


FACILITIES INVENTORY

Existing and future, year 2000 and year 2020, respectively, wastewater treatment/reclamation facilities and associated infrastructure within the study area were inventoried. The purpose of the inventory was to:

- Identify existing treatment facilities and infrastructure
- Identify reclaimed water transmission infrastructure
- Determine current wastewater flows
- Determine existing reuse and disposal mechanisms and how much reclaimed water/effluent is distributed to each

Flows were generated from Monthly Operating Reports (MORs) submitted for each facility to FDEP in accordance with their permits and from monitoring data provided by the facilities. Flow data included correlate with year 2000 population projections.



Wastewater Treatment/Reclamation Facilities

There are five wastewater treatment plants/reclamation facilities of significance in the study area. Effluent from the wastewater treatment/reclamation facilities is reused for urban irrigation, commercial uses, and groundwater recharge, or disposed of via surface water. Table 2 presents recent reuse and disposal information from the facilities.

Table 2
Reuse and Disposal Summary – Current

Facility Name	Disposal Method	AADF (MGD)	Max. Monthly Flow (MGD)	Min. Monthly Flow (MGD)
Fiesta Village Plant Capacity = 5 MGD	Reuse	0.90	1.33	0.19
	Surface Water	1.39	2.66	0.69
Ft. Myers Beach Plant Capacity = 6 MGD	Reuse	2.40	3.61	1.15
	Percolation Ponds	0.5	0.5	0.5
	Deep Well Injection	0.32	1.18	0
Three Oaks Plant Capacity = 1.5 MGD	Reuse	1.3	1.6	1.1
Ft. Myers Central Plant Capacity = 11 MGD	Reuse	0.70	0.8	0.44
	Surface Water	5.65	11.66	0
Ft. Myers South Plant Capacity = 12 MGD	Surface Water	7.37	12.26	5.75
Gateway Plant Cap. = 0.5 MGD	Reuse	0.30	0.41	0.31
Lehigh Acres Plant Cap. = 2.1 MGD	Reuse	1.2	2.4	0.6
Total MGD	Reuse	6.8	10.1	3.8
	Surface Water/Percolation	14.9	27.1	6.9
	Deep Well Injection	0.3	1.2	0.00

A list of potential end users for the RIDS has been determined based on information received from the local governments to determine future infrastructure needs. Attachment A shows existing and proposed users graphically. This will include existing and planned new golf courses, large green space areas, and future large planned residential developments. Table 3 presents the list of existing reclaimed water users (excluding quantity for percolation) and Table 4 presents potential major irrigation users. Current reclaimed water use is 6.8 MGD. The current facility locations are shown in Figures 2 and 3.

Table 3
Major Current Irrigation Users and Irrigation Demand

	Existing User	Reuse Demand (MGD)
Three Oaks	Vines Country Club	0.50
Source: GUS permit, page 3	Pelican Sound Golf Course	0.50
	West Bay Club Golf Course	0.35
	Villages of Country Creek Golf Course	0.15
	Subtotal	1.50
Fiesta Village	The Landings	0.25
Source: 2002-3 data	Crown Colony GC	0.50
	Cypress Lake CC/HS/Manor	0.59
	Myerlee CC/Condos	0.53
	Riverside at Landing, Rutenberg Park , DOT Interc, Laguna Lakes Res.	0.28
	Subtotal	2.15
Ft. Myers Beach	Gulf Harbour	0.69
Source: 2002-3 data	County Percolation Ponds	0.55
	Lexington	0.61
	Kelly Greens	0.41
	Health Park	0.22
	Bayside Estates	0.19
	Summerlin Ridge	0.13
	Shell Point Golf Club	0.07
	Shell Point Woodlands	0.02
	Shell Point Village	0.11
	McGregor Park Condos	0.09
	Small Users	0.17
	Subtotal	3.25
Ft. Myers Central/South	Lee County Resource Recovery Facility	0.46
Source: Effluent Resource Planning Report, March 2001 Table 2-1	Red Sox Minor League Facility	0.13
	City Nursery	0.02
	City of Ft Myers WTP	0.02
	Buckingham Community Bank	0.06
	Subtotal	0.69
Gateway	Residential	
	Subtotal	
Lehigh Acres	Lehigh Acres North	
	Mirror Lakes	
	Subtotal	
Total Reuse Demand =		7.59

*denotes users that average less than 100,000 gpd

Table 4
Potential Major Irrigation Users and Irrigation Demand

	Potential User	Reuse Demand (MGD)
Three Oaks	Stoneybrook	1.05
Source: GUS permit, page 3	Grande Oaks	0.72
	FGCU	0.2
	Miromar Lakes	0.5
	Subtotal	2.47
Fiesta Village	Village of Sevel Lakes	0.60
Source: Reuse Feasibility Study, Sept 02	Edison Community College	0.06
	Myerlee Gardens Home Owners	0.03
	Mariner Building	0.03
	University of South Florida	0.03
	Caloosa Yacht and Racquet Club	0.03
	Golf View Country Club	0.27
	Parker Lakes Developments	0.03
	Caloosa Palms	0.07
	Subtotal	1.15
Ft. Myers Beach	Pottinger's Nursery	0.02
Source: Plan Update for Reuse Service Area, June 03	Lee County Property (South of Kelley Rd.)	0.02
	Watercase Corporation	0.02
	Peppertree Points	0.10
	Cypress Cove Health Park	0.12
	Health Park Undeveloped Land	0.30
	Asbury	0.10
	Sanibel Beach Place	0.03
	Small Users	0.01
	Subtotal	0.71
Ft. Myers Central/South	Heritage Palms Golf Course	0.47
Source: Effluent Resource Planning Report, March 2001 Table 2-2	Heritage Palms	0.77
	Eastwood Golf Course	0.56
	Ft. Myers Country Club	0.37
	Centennial Park	0.03
	Omni Development	0.42
	Windkler Road Ext.	0.01
	Ft. Myers Cemetery	0.03
	Little League Ballfield	0.01
	Minor Irrigation Users	0.43
	Red Sox Main Field	0.04
	Jack Parker Corp.	0.35
	Jack Parker Corp. Golf Course	0.47
	Sun City Golf Courses	0.70
	Sun City	1.05
	Colonial Golf & Country Club Golf Course	0.29
	Colonial Golf & Country Club Residential	0.57
	Gateway Development	0.84
	Subtotal	7.41
Gateway	Residential	
	Subtotal	
Lehigh Acres	Lehigh Acres North	
	Mirror Lakes	
	Subtotal	
Total Potential Reuse Demand =		9.46

*NI denotes no information

Reclaimed Water Transmission Facilities

Existing reclaimed water transmission facilities were identified. The focus was primarily on larger pipelines; therefore, distribution systems and smaller lines may not be shown on the maps. Figure 3 presents the existing reclaimed water transmission facilities.